

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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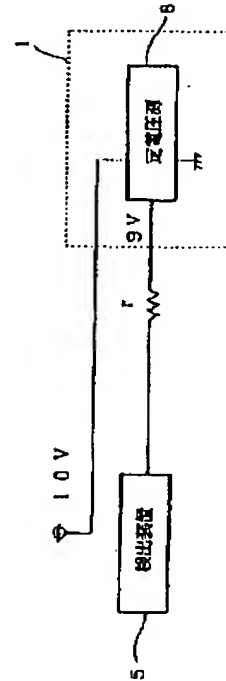
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APPLICANT : TOSHIBA CORP;

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TITLE : RF COIL IDENTIFYING DEVICE



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ABSTRACT : PURPOSE: To correctly identify an RF coil even if loss resistance exists between the RF coil and a detecting device by providing a constant-voltage source outputting a different voltage signal to each RF coil respectively, and providing the detecting device measuring the voltage signal.

CONSTITUTION: Even if loss resistance (r) about  $100\Omega$  exists between a constant-voltage source 8 and a detecting device 5, the input impedance of the detecting device 5 is normally  $100\Omega$  or above and sufficiently larger than the loss resistance (r), and the loss resistance (r) can be neglected. The voltage signal from the constant-voltage source 8 can be correctly detected by the detector 5 even if the loss resistance (r) exists. The constant-voltage source 8 with different output voltage is provided on each RF coil 1, and the RF coil 1 is identified by detecting the magnitude of the voltage signal with the detector 5. The RF coil 1 can be correctly identified even if the loss resistance (r) exists between the RF coil 1 and the detecting device 5.

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